

1. (Three Times Amended) An audio conference server (ACS) for enabling an application program to provide multi-point, weight controllable audio conferencing, the ACS comprising:

means for managing at least one audio conference, said at least one audio conference including a plurality of audio clients;

means for receiving audio data from said plurality of audio clients;

means for mixing said audio data to provide spatialized audio to said plurality of audio clients in said at least one audio conference,

wherein said mixing means includes means for providing distance-based attenuation according to sound decay characteristics, at least one sound decay characteristic being assigned to each audio client from a plurality of different sound decay characteristics, each different sound decay characteristic providing a different volume/distance relationship, and

wherein said mixing means results in mixed audio data; and

means for delivering said mixed audio data to said plurality of audio clients in said at least one audio conference.

- (Three Times Amended) A method for enabling an audio conference server ACS to provide an application program with multi-point, weight controllable audio conferencing, comprising:
 - (1) managing at least one audio conference, said at least one audio conference





comprising a plurality of audio clients;

- (2) receiving audio data from said plurality of audio clients;
- (3) mixing said audio data to provide spatialized audio to said plurality of audio clients in said at least one audio conference,

wherein said mixing includes providing distance-based attenuation according to sound decay characteristics, at least one sound decay characteristic being assigned to each audio client from a plurality of different sound decay characteristics, each different sound decay characteristic providing a different volume/distance relationship, and

wherein said mixing results in mixed audio data; and

(4) delivering said mixed audio data to said plurality of audio clients in said at least one audio conference.

(Three Times Amended) A computer program product comprising a computer useable medium having computer program logic recorded thereon for enabling an audio conference server (ACS) to provide an application program with muilti-point, weight controllable audio conferencing, said computer program logic comprising:

means for enabling the computer to manage at least one audio conference, said at least one audio conference comprising a plurality of audio clients;

means for enabling the computer to receive audio data from said plurality of audio clients;

means for enabling the computer to mix said audio data to provide spatialized audio to said plurality of audio clients in said at least one audio conference;

wherein said mixing means includes means for enabling the computer to provide

f end

Page 4 Shinya Matsuoka S.N. 08/841,397

distance-based attenuation according to sound decay characteristics, at least one sound decay characteristic being assigned to each audio client from a plurality of different sound decay characteristics, each different sound decay characteristic providing a different volume/distance relationship, and

wherein said mixing means results in mixed audio data; and
means for enabling the computer to deliver said mixed audio data to said plurality of
audio clients in said at least one audio conference.

45. (Twice Amended) An audio conference server providing multi-point, weight controllable audio conferencing comprising:

a management device managing at least one audio conference, said at least one audio conference including a plurality of audio clients;

a receiver receiving audio data from said plurality of audio clients;

a mixer mixing said audio data from said plurality of audio clients;

wherein said mixer includes a distance-based attenuation device providing distance-based attenuation according to sound decay characteristics, at least one sound decay characteristic being assigned to each audio client from a plurality of different sound decay characteristics, each different sound decay characteristic providing a different volume/distance relationship, and

wherein said mixer provides mixed audio data; and

an audio data delivery device delivering said mixed audio data to said plurality of audio clients in said at least one audio conference.

